IN THE CLAIMS

1-4. (cancelled)

5. (previously presented) A composition comprising:

a cyclodextrin-containing polymer,

a therapeutic agent, and

a complexing agent, comprising:

at least one guest moiety that forms an inclusion complex with a host moiety of said cyclodextrin-containing polymer, wherein the guest moiety is selected from adamantyl, naphthyl, cholesterol, and combinations thereof, and

at least one polymer portion that increases solubility and/or imparts stabilization relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone;

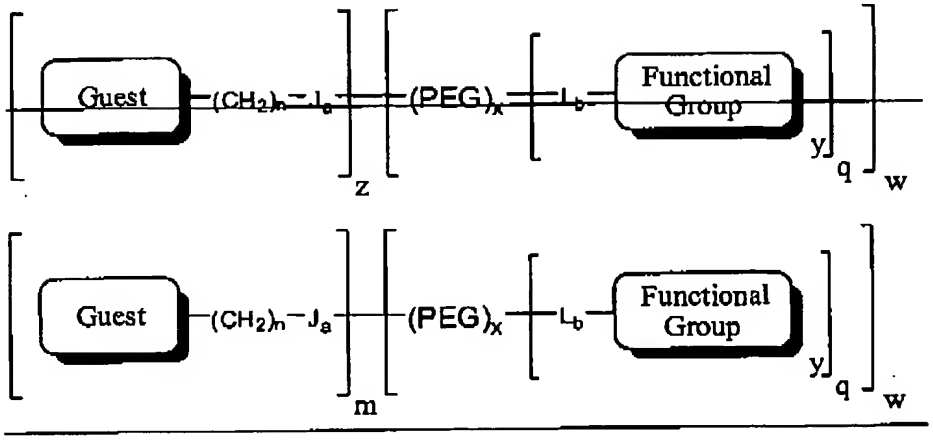
wherein the cyclodextrin-containing polymer, the therapeutic agent, and the complexing agent are separate molecules.

6. (previously presented) A composition of claim 5, wherein said therapeutic agent is selected from an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.

7. (previously presented) A composition of claim 6, wherein said therapeutic agent is a polynucleotide.

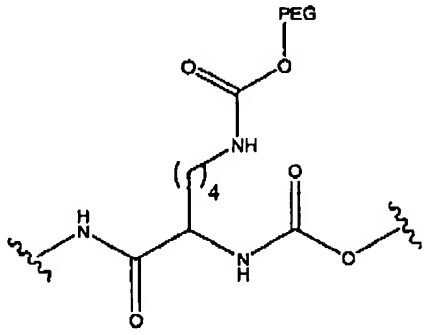
8-11. (cancelled)

12. (currently amended) A composition of claim 5, wherein the complexing agent is a compound of the formula:



wherein

J is –NH-, -C(=O)NH-CH_2)$_d$-, -NH-C(=O)-(CH_2)$_d$-, -CH_2SS-, -C(=O)O-(CH_2)$_e$-O-P(=O)(O-



(CH_2)$_e$-Y)O-, , a peptide or polypeptide residue, or

-NH-(C=O)-CH(R^1)-NH-(C=O)-CH(R^1)-NH-;

Y is an additional host-guest functionality;

R^1 is –(CH_2)-CO_2H, an ester or salt thereof; or –(CH_2)$_a$-$CONH_2$;

PEG is –O(CH_2CH_2O)$_z$-, where z varies from 2 to 500;

L is H, -NH, -NH-(C=O)-(CH_2)$_e$-(C=O)-CH_2-, -S(=O)$_2$-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

e ranges from 1 to 6;

m ranges from 1 to 5;

n ranges from 0 to 6;

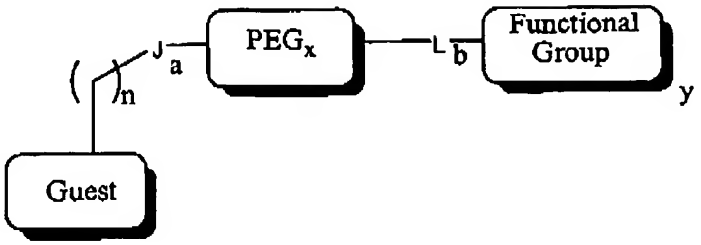
q ranges from 1 to 5;

w ranges from 1 to 5;

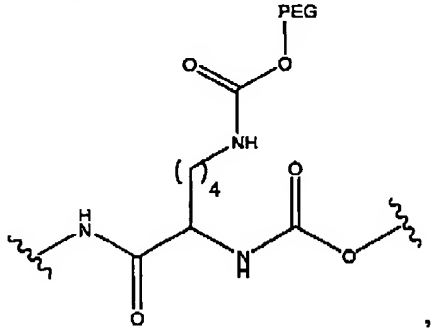
y is 1; and

x is 0 or 1.

13. (previously presented) A composition of claim 5, wherein the complexing agent is a compound of the formula:



wherein

J is –NH-, -C(=O)NH-$CH_2)_d$-, -NH-C(=O)-$(CH_2)_d$-, -CH_2SS-, -C(=O)O-$(CH_2)_e$-O-P(=O)(O-$(CH_2)_e$-Y)O-,  , a peptide or polypeptide residue, or -NH-(C=O)-CH(R^1)-NH-(C=O)-CH(R^1)-NH-;

Y is an additional host-guest functionality;

R^1 is –(CH_2)-CO_2H, an ester or salt thereof; or –$(CH_2)_a$-$CONH_2$;

PEG is –$O(CH_2CH_2O)_z$-, where z varies from 2 to 500;

L is H, -NH, -NH-(C=O)-$(CH_2)_e$-(C=O)-CH_2-, -$S(=O)_2$-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

e ranges from 1 to 6;

n ranges from 0 to 6;

y is 1; and
x is 0 or 1.

14. (previously presented) A composition of claim 5, wherein the complexing agent further comprises a group selected from a ligand, a nuclear localization signal, an endosomal release peptide, an endosomal release polymer, or a membrane permeabilization agent.

15. (previously presented) A composition of claim 5, wherein the polymer portion increases the solubility of the composition under biological conditions relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone.

16. (previously presented) A composition of claim 5, wherein the polymer portion stabilizes the composition under biological conditions relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone.

17. (previously presented) A composition of claim 5, wherein the complexing agent further comprises a therapeutic agent reversibly bound to the complexing agent.

18. (previously presented) A composition of claim 5, wherein the complexing agent further comprises a spacer group.

19-22. (cancelled)

23. (previously presented) A composition of claim 5, wherein at least one polymer portion of the complexing agent comprises PEG or derivatives thereof.

24-26. (cancelled)

27. (previously presented) A composition of claim 5, wherein the cyclodextrin-containing polymer comprises one or more cyclodextrins in side chains of the cyclodextrin-containing polymer.

28. (previously presented) A composition of claim 5, wherein the cyclodextrin-containing polymer comprises a linear cyclodextrin-containing polymer wherein cyclodextrin moieties are present in the backbone of the polymer.

29. (cancelled)

30. (previously presented) A composition comprising:
a cyclodextrin-containing polymer,
a therapeutic agent, and
a complexing agent, comprising:
at least one functional group,
at least one guest moiety that forms an inclusion complex with a host moiety of said cyclodextrin-containing polymer, wherein the guest moiety is selected from adamantyl, naphthyl, cholesterol, and combinations thereof, and
at least one polymeric spacer group;
wherein the cyclodextrin-containing polymer, the therapeutic agent, and the complexing agent are separate molecules.

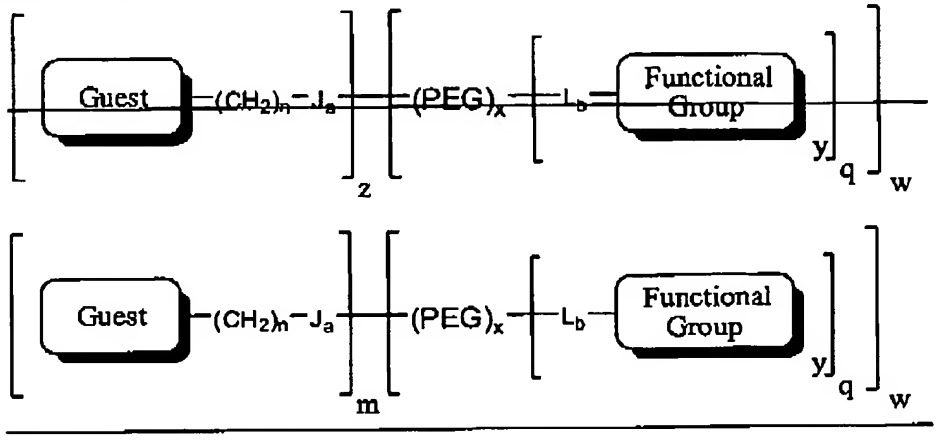
31. (previously presented) A composition of claim 30, wherein said therapeutic agent is selected from an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.

32. (previously presented) A composition of claim 31, wherein said therapeutic agent is a polynucleotide.

33. (cancelled)

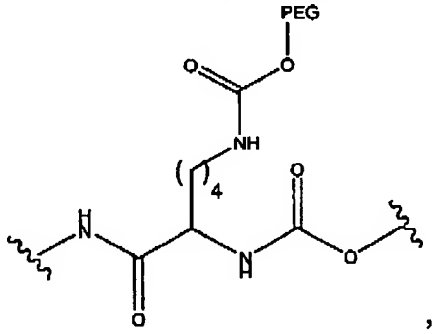
34. (previously presented) A composition of claim 30, wherein at least one spacer group of the complexing agent comprises PEG or derivatives thereof.

35. (currently amended) A composition of claim 34, wherein the complexing agent is a compound of the formula:



wherein

J is –NH-, -C(=O)NH-$CH_2)_d$-, -NH-C(=O)-$(CH_2)_d$-, -CH_2SS-, -C(=O)O-$(CH_2)_e$-O-P(=O)(O-



$(CH_2)_e$-Y)O-, , a peptide or polypeptide residue, or -NH-(C=O)-CH(R^1)-NH-(C=O)-CH(R^1)-NH-;

Y is an additional host-guest functionality;

R^1 is –(CH_2)-CO_2H, an ester or salt thereof; or –$(CH_2)_a$-$CONH_2$;

PEG is –O($CH_2CH_2O)_z$-, where z varies from 2 to 500;

L is H, -NH, -NH-(C=O)-$(CH_2)_e$-(C=O)-CH_2-, -S(=O)$_2$-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

e ranges from 1 to 6;

m ranges from 1 to 5;

n ranges from 0 to 6;

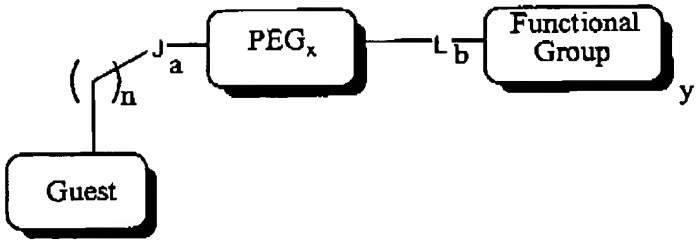
q ranges from 1 to 5;

w ranges from 1 to 5;

y is 1; and

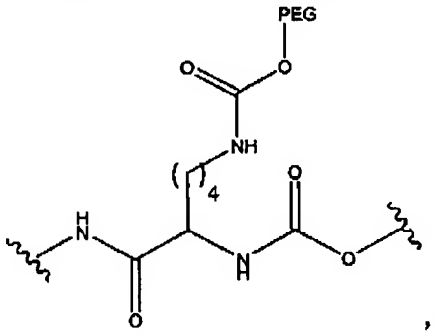
x is 1.

36. (previously presented) A composition of claim 34, wherein the complexing agent is a compound of the formula:



wherein

J is –NH-, -C(=O)NH-$CH_2)_d$-, -NH-C(=O)-$(CH_2)_d$-, -CH_2SS-, -C(=O)O-$(CH_2)_e$-O-P(=O)(O-



$(CH_2)_e$-Y)O-, , a peptide or polypeptide residue, or -NH-(C=O)-CH(R^1)-NH-(C=O)-CH(R^1)-NH-;

Y is an additional host-guest functionality;

R^1 is –(CH_2)-CO_2H, an ester or salt thereof; or –$(CH_2)_a$-$CONH_2$;

PEG is –$O(CH_2CH_2O)_z$-, where z varies from 2 to 500;

L is H, -NH, -NH-(C=O)-$(CH_2)_e$-(C=O)-CH_2-, -$S(=O)_2$-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

e ranges from 1 to 6;
n ranges from 0 to 6;
y is 1; and
x is 1.

37. (previously presented) A composition of claim 30, wherein at least one functional group includes a group selected from a ligand, a nuclear localization signal, an endosomal release peptide, an endosomal release polymer, or a membrane permeabilization agent.

38. (previously presented) A composition of claim 30, wherein at least one functional group includes a moiety that increases the solubility of the composition under biological conditions relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone.

39. (previously presented) A composition of claim 30, wherein at least one functional group includes a moiety that stabilizes the composition under biological conditions relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone.

40. (previously presented) A composition of claim 30, wherein at least one functional group includes a therapeutic agent reversibly bound to the complexing agent.

41. (previously presented) A composition of claim 30, wherein the cyclodextrin-containing polymer comprises one or more cyclodextrins in side chains of the cyclodextrin-containing polymer.

42. (previously presented) A composition of claim 30, wherein the cyclodextrin-containing polymer comprises a linear cyclodextrin-containing polymer wherein cyclodextrin moieties are present in the backbone of the polymer.